

I design, implement and test **embedded software for mechanical systems**, usually in high reliability contexts (Medical Devices, Aircraft Components, etc.). Additionally, I can teach others to do the work, put together teams to do the work, and lead teams doing the work.

### **Employment History**

#### ***Tandem Diabetes Care, San Diego, CA (November 2006-Present)***

**Senior Director of Software Engineering:** Recruited and led embedded software team to create software, tests, and documentation for t:slim, t:flex, & t:slim G4 insulin pumps. Defined Tandem's software process.

#### ***Aubrey Group, Irvine, CA (July 2005-November 2007)***

**Senior Software Engineer:** Developed embedded software for a number of medical devices including a heart pump, a blood mixer, and a device for treating cellulite.

#### ***Parker Aerospace, Controls System Division, Irvine, CA (April 2003-July 2005)***

**Senior Principal Engineer/Contractor:** Lead for a rescue effort of a DO-178B "Level A" flight control actuation system that was several years behind schedule. System engineer for the Flight Control Actuation System on F-35.

#### ***Snap Appliance, Inc. (Formerly Broadband Storage Inc.), Irvine, CA (Jan. 2000-April 2003.)***

**Technical Director/Principal Engineer.**

Chief architect for the file system for a NAS/SAN product. This was a career detour.

#### ***Delphi Engineering Group, Costa Mesa, CA. (Oct. 1996 – Jan. 2000)***

**Principal Engineer:** Developed embedded software & documentation for a variety of commercial aviation and military projects per DO-178B, DO-254, and Mil-Std 498.

#### ***Orange Coast College, Costa Mesa, CA. (January 1998 – June 2003)***

**Adjunct Instructor:** Taught courses in *Assembly Language & Computer Architecture*

#### ***Parker Hannifin, CA (February 1986 - October 1996)***

**Principal Engineer.** Developed software, documentation and tests for a wide variety of industrial and aerospace digital controllers. Designed the digital hardware for several of the projects.

#### ***Hughes Aircraft Company, Newport Beach, CA (July 1984-February 1986)***

**Member Technical Staff.** Initially hired as a thermal analyst but transitioned into writing embedded software for a wide variety of mechanical equipment.

#### ***University of California, Irvine, School of Engineering, Irvine, CA (Jan 1982-March 1984)***

**Teaching assistant:** Lectured & led laboratory sessions in control systems, experimental methods, heat transfer, and thermodynamics.

### **Education**

M.S. in Mechanical Engineering, U.C. Irvine, December 1984

B.S. in Engineering, U.C. Irvine, June 1982 (magna cum laude)

Ph.D. in Organizational Leadership in progress (expected 2018), Regent University, VA

For more details see <http://tomulrichconsulting.com>

Click on "Additional Materials" for a more detailed resume.